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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/997,610	11/29/2001	Brian A. Fox	00-96	7389

7590 07/17/2002

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EXAMINER

SNEDDEN, SHERIDAN

ART UNIT

PAPER NUMBER

1653

DATE MAILED: 07/17/2002

8

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/997,610

Applicant(s)

FOX ET AL.

Examiner

Sheridan K Snedden

Art Unit

1653

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) 1-5 and 16-21 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 6-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Applicant's election of Invention II, Claims 6-15 is acknowledged. Election was made **without** traverse in Paper No. 6.

Priority

Applicant's claim for domestic priority under 35 U.S.C. 119(e) is acknowledged. However, the provisional application upon which priority is claimed fails to provide adequate support under 35 U.S.C. 112 for claim 11 of this application. The claim recites "SEQ ID NO: 7," which is not disclosed in the provisional application upon which priority is claimed.

Information Disclosure Statement

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Specification

The disclosure is objected to because of the following informalities:

1. The reference cited on page 1, line 36 is incomplete. See also page 21, line 3.
2. The sequence disclosed on page 18 line 34 is not in compliance with 37 CFR 1.822 (d) which clearly states that any amino acid sequence shall be listed using the three-letter abbreviation with the first letter as an upper case character

Appropriate correction is required.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 6, 8, 11, 12 and dependent claims thereto are rejected under 35 U.S.C. 101 because the claimed invention lacks patentable utility. The above claims are directed to an isolated nucleic acid encoding a polypeptide of SEQ ID NO: 2, host cells, expression vectors and a method for producing the polypeptide of SEQ ID NO: 2, identified in the specification as Zarcpl3. The nucleic acid above is disclosed as have utility in the detection of Zarcpl3 gene expression (page 62, line 20), in the production of Zarcpl3 polypeptide and as having therapeutic use (page 85, line 21). Of the above uses, none provide a specific or substantial asserted utility or a well established utility. Basic research, such as studying the properties of the claimed product itself or the mechanisms in which the material is involved, such as gene expression, do not constitute specific or substantial utilities. The therapeutic methods disclosed in the specification teach the treatment of unspecified disease or condition. Specifically, the specification merely states that the Zarcpl3 nucleic acids may be provided to subjects in need of Zarcpl3 treatment. Neither the specification nor the art of record disclose any diseases or conditions caused or exacerbated by Zarcpl3. The asserted utility in this case essentially is a method of treating an unspecified, undisclosed disease or condition, which does not define a "real world" context of use. Treating an unspecified, undisclosed disease or condition would require or constitute carrying out further research to identify or reasonably confirm a "real world" context of use.

Additionally, the use of the nucleic acid in the method of making a polypeptide that itself has no specific and substantial asserted or well established utility is itself not specific and

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substantial or well establish. The specification as filed does not disclose or provide any evidence that points to an activity for the protein and furthermore there is no art of record that discloses or suggests any activity for the claimed protein. The specification discloses the Zarcpl3 polypeptide as having potential use, or that may be evaluated for such potential use, as a modulator of energy balance and cellular metabolic reactions (page 74, line 15); as a antimicrobial (page 77, line 21); as a modulator of calcium ion concentration, muscle contraction, hormone secretion DNA synthesis or cell growth, etc (page 77, line 35); as an inducer of platelet aggregation (page 76, line 21); as having therapeutic use thereof (page 83, line 3); and as having an educational use (page 84, line 20). Further experimentation is required to identify a specific and substantial use for the polypeptide as only prophetic uses not yet evaluated are disclosed in the specification. Furthermore, the non-prophetic uses disclosed for the polypeptide, e.g. educational purposes, do not show specific utility as it states a general use of all polypeptides.

Thus, the claimed polynucleotide encoding protein is not supported by either a specific and substantial asserted utility or a well established utility as to the above because the specification fails to assert any well established utility for the protein and neither the specification as filed nor any art of record disclose or suggest any activity for the protein such that any utility would be well established for the protein.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 6, 8, 11, 12 and dependent claims thereto are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific or substantial asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 is indefinite because each number of the Markush group recites "comprising." In item (a) the polypeptide "comprises" residues "19-45 of SEQ ID NO: 2," but comprises is open ended and can include residues 1-459 of SEQ ID NO: 2. Similarly, each recited member of (b) through (h) are similarly indefinite because it is not apparent how each member of the Markush group is mutually exclusive one from the other and because each item (a) through (h) overlap each other.

Claim 7 is indefinite as to "moiety" (singular) and the members recited in the Markush group (all plural). In addition, it is unclear in the claim what the common feature of each moiety is or is not supposed to be or have been.

Claim 8 is indefinite as to "portion" as to what is or is not the "a first portion" and the "a second portion." Is "portion" all or only part of items (a) through (g)? In addition, as to the "a second portion," does or does it not include a second or third of "a first portion" as "the second

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portion comprising another polypeptide” does not preclude same when “another” is interrupted to mean “additional but not necessarily different” as opposed “different.”

Claim 9 is indefinite as to what is or is not a “collagen-like” domain. In addition it is not clear what is or is not a “complement related protein” with regards to both structure and function.

Claim 10 is indefinite regarding overlapping members of the Markush group (See explanation is discussion above, claim 6). See same issue in claim 12.

Claim 11 is indefinite as the nucleotides are not distinct one from the other as ranges overlap.

Claim 12 is objected to because improper Markush language is recited in the claim. The claim should recite “an amino acid sequence selected from the group consisting of.” The claim as stated recites a vector that consist of all DNA segments listed (a)-(h) in the claim.

Claims 13-15 are indefinite for being dependent from indefinite claims and do not correct issue of the indefinite claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 6, 8, 10, 11 and dependent claims thereto are rejected under 35 U.S.C. 102(a) as being anticipated by Bridgeman (Accession Number: Z82198). Bridgeman discloses a human nucleotide sequence that is identical to SEQ ID NO: 1 between the base pairs 98 and 1381.

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Thus, the sequence anticipates the nucleic acid molecules consisting of base pairs 179-448 and 137-448 of SEQ ID NO: 1 recited in claim 11. Furthermore, the nucleic acid of Bridgeman would encode for the polypeptide comprising amino acid residues 60-149 and 46-149 of SEQ ID NO: 2 recited in claims 6, 8 and 10. As written, the use of "consisting" in claims 10 and 11 may be interpreted as "open" language. Thus, the reference anticipates the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bridgeman (Accession Number: Z82198) in view of Lee *et al.* (Biotechnol Prog. 1999). Bridgeman discloses a human nucleotide sequence that is identical to SEQ ID NO: 1 between the base pairs 98 and 1381. This nucleic acid would encode for the polypeptide comprising amino acid residues 60-149 and 46-149 of SEQ ID NO: 2 recited in claim 12. Bridgeman does not teach an expression vector, host cell or method of isolating a polypeptide.

Lee *et al.* teach an expression system comprising of expression vector, secretory enhancer sequence and cultured cells. Lee *et al.* teach the insertion of a polynucleotide into the expression vector. The expression vector contains a secretory enhancer sequence operably linked to the DNA of interest that promotes the secretion of the synthesized protein of interest into the culture

media. Lee *et al.* additionally teach the introduction of the vector into cultured cells, culturing of the cells and how to produce and isolated the recombinant protein.

It would have been obvious to the person of ordinary skill in the art at the time the invention was made to insert the known nucleic acid molecule encoding for the polypeptide comprising amino acids 60-149 and 46-149 of SEQ ID NO: 2 into an expression vector taught by Lee *et al.* (claim 12). The expression vector of Lee *et al.* contains a secretory signal operably linked to the DNA segment of interest (claim 13). It would have been obvious to the person of ordinary skill in the art at the time the invention was made to introduce of the expression vector to a cultured cell and then to utilize that cell in a method of producing and isolating the polypeptide (claims 14 and 15).

The person of ordinary skill in the art would have been motivated, and reasonably would have expected success, to insert the known nucleic acid into an expression vector comprising a secretory signal because such expression vectors are used in the art to produce recombinant protein (Lee *et al.*). Thus, the claimed invention was within the ordinary skill in the art to make and use at the time it was made and was as a whole, *prima facie* obvious.

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheridan K Snedden whose telephone number is (703) 305-4843. The examiner can normally be reached on Monday - Friday, 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on (703) 308-2923. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 746-3975 for regular communications and (703) 746-3975 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

SKS

July 15, 2002

SKS

Christopher S. F. Low
CHRISTOPHER S. F. LOW
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1800

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: June 30, 2002, 12:22:13 ; Search time 1885.54 Seconds
(without alignments)
15326.934 Million cell updates/sec

Title: US-09-997-610-1
Perfect score: 1381
Sequence: 1 gatagggtcatcattgtct.....tgtacctccattgtatgtag 1381

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0
Searched: 1797656 seqs, 10463268293 residues
Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 2: gb_hgt.*
- 3: gb_in.*
- 4: gb_on.*
- 5: gb_ov.*
- 6: gb_pat.*
- 7: gb_ph.*
- 8: gb_pl.*
- 9: gb_pr.*
- 10: gb_ro.*
- 11: gb_sts.*
- 12: gb_sy.*
- 13: gb_un.*
- 14: gb_vl.*
- 15: em_ba.*
- 16: em_fun.*
- 17: em_hum.*
- 18: em_in.*
- 19: em_mu.*
- 20: em_on.*
- 21: em_ov.*
- 22: em_ov.*
- 23: em_pat.*
- 24: em_ph.*
- 25: em_pl.*
- 26: em_ro.*
- 27: em_sts.*
- 28: em_un.*
- 29: em_vl.*
- 30: em_htg_hum.*
- 31: em_htg_inv.*
- 32: em_htg_other.*
- 33: em_htg_inv.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description

1	1284	93.0	145880	9	HS302D9	282198 Human DNA.s
2	697.6	50.5	198545	2	AC017063	AC017063 Homo sapi
3	693.4	50.2	124518	9	AL138962	AL138962 Human DNA
4	693.2	50.2	77405	2	AL353634	AL353634 Homo sapi
5	692.6	50.2	40714	9	HSU212C1	269722 Human DNA.s
6	690.8	50.0	123070	2	AC008799	AC008799 Homo sapi
7	690.8	50.0	189768	2	AC044889	AC044889 Homo sapi
8	689.8	49.9	154090	9	AC025577	AC025577 Homo sapi
9	689	49.9	186660	2	AC026107	AC026107 Homo sapi
10	686.6	49.7	170368	9	AC091982	AC091982 Homo sapi
11	686	49.7	47984	9	AC010312	AC010312 Homo sapi
12	684	49.5	168502	9	AC091005	AC091005 Homo sapi
13	682.4	49.4	73398	9	AC012038	AC012038 Homo sapi
14	681.6	49.4	131215	8	AC079614	AC079614 Homo sapi
15	681.4	49.3	173480	9	CNS00M8T	AL079343 Human chr
16	681	49.3	38235	9	AC004559	AC004559 Homo sapi
17	681	49.3	146743	2	AC083588	AC083588 Homo sapi
18	681	49.3	166679	9	AC079899	AC079899 Homo sapi
19	681	49.3	176426	9	AC007370	AC007370 Homo sapi
20	680.6	49.3	152544	9	CNS03FEJ	AL359232 Human chr
21	680.6	49.3	203726	2	AC014882	AC014882 Homo sapi
22	679.6	49.2	124531	9	HS4633H17	AL049710 Human DNA
23	679.2	49.2	187898	2	AC016715	AC016715 Homo sapi
24	679	49.2	136271	9	AC008360	AC008360 Homo sapi
25	679	49.2	147971	9	HS431P23	AL009178 Human DNA
26	678.2	49.1	107885	9	AC006389	AC006389 Homo sapi
27	678.2	49.1	150332	9	AC004921	AC004921 Homo sapi
28	678	49.1	181842	2	AL391823	AL391823 Homo sapi
29	677.8	49.1	77774	9	AP000339	AP000339 Homo sapi
30	677.8	49.1	84730	9	AP000230	AP000230 Homo sapi
31	677.8	49.1	100000	9	AP000144	AP000144 Homo sapi
32	677.8	49.1	100000	9	AP000217	AP000217 Homo sapi
33	677.8	49.1	100634	9	AP001594	AP001594 Homo sapi
34	677.8	49.1	340000	9	AP001695	AP001695 Homo sapi
35	677.8	49.1	340000	9	AP001760	AP001760 Homo sapi
36	677.6	49.1	155764	9	AC011238	AC011238 Homo sapi
37	677.4	49.1	182972	2	AC023550	AC023550 Homo sapi
38	676.4	49.0	125295	2	AL672061	AL672061 Homo sapi
39	676.4	49.0	174662	2	AC026036	AC026036 Homo sapi
40	676.2	49.0	123631	9	HS22F01	AL109967 Homo sapi
41	676.2	49.0	168863	9	AC011286	AC011286 Homo sapi
42	676	49.0	105692	9	AL451046	AL451046 Human DNA
43	676	49.0	135623	2	AC022618	AC022618 Homo sapi
44	675.8	48.9	239008	2	AC022460	AC022460 Homo sapi
45	675.4	48.9	150001	9	AC006063	AC006063 Homo sapi

ALIGNMENTS

RESULT	1
LOCUS	HS302D9
DEFINITION	Human DNA sequence from clone Rpi-302D9 on chromosome 22 Contains GSSs, complete sequence.
ACCESSION	282198
VERSION	282198.2
KEYWORDS	GI:6572207
SOURCE	HTG.
ORGANISM	human.
REFERENCE	Homo sapiens
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE	1 (bases 1 to 145880)
JOURNAL	BridgeMan.A.
COMMENT	Direct Submission Submitted (08-DEC-1999) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk On Dec 13, 1999 this sequence version replaced gi:3164067. During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission

corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence has been finished according to sequence map criteria as follows. An attempt is made to resolve all sequencing problems, such as compressions and repeats, but not necessarily within known annotated human repeat sequence elements (e.g. Alu). Where the sequence is ambiguous, there is an annotation using the 'unsure' feature key.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em: EMBL; Sw: SWISSPROT; Tr: TREMBL; Wp: WORMPEP; Information on the WORMPEP database can be found at

<http://www.sanger.ac.uk/Projects/C.elegans/wormpep> This sequence was generated from part of bacterial clone contigs of human chromosome 22, constructed by the Sanger Centre Chromosome 22 Mapping Group. Further information can be found at

<http://www.sanger.ac.uk/HGP/Chr22>

RPI-302D9 is from the library RPI-1 constructed at the Roswell Park Cancer Institute by the group of Pieter de Jong. For further details see <http://bacpac.med.buffalo.edu/> VECTOR: pCYPAC2

This sequence is the entire insert of clone RPI-302D9 The true left end of clone CTA-282F2 is at 69682 in this sequence. The true right end of clone CTA-415G2 is at 55167 in this sequence.

FEATURES

Source

Location/Qualifiers
1. .145880
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="22"
/clone="RPI-302D9"
/clone_lib="RPI-1"
188. .245
/note="MER3 repeat: matches 144. .209 of consensus"
246. .571
/note="AluX repeat: matches 1. .312 of consensus"
572. .759
/note="MER3 repeat: matches 1. .144 of consensus"
783. .933
/note="MER5A repeat: matches 26. .187 of consensus"
1033. .1336
/note="AluSp repeat: matches 1. .299 of consensus"
1450. .1583
/note="MIR repeat: matches 24. .160 of consensus"
1687. .1752
/note="L2 repeat: matches 2593. .2661 of consensus"
2350. .2660
/note="AluSc repeat: matches 3. .309 of consensus"
2684. .2981
/note="AluSq repeat: matches 2. .300 of consensus"
3323. .3343
/note="MLT1E repeat: matches 116. .136 of consensus"
3344. .3652
/note="AluY repeat: matches 1. .309 of consensus"
3653. .3928
/note="MLT1E repeat: matches 136. .359 of consensus"
3929. .4278
/note="THE1B repeat: matches 3. .364 of consensus"
4279. .4485
/note="MLT1E repeat: matches 359. .568 of consensus"
5073. .5176
/note="52 copies 2 mer ct 78 conserved"
5181. .5491
/note="AluJb repeat: matches 1. .311 of consensus"
6369. .6485
/note="L2 repeat: matches 2579. .2705 of consensus"
6647. .6685
/note="MADE1 repeat: matches 1. .23 of consensus"
6686. .6987
/note="AluX repeat: matches 1. .302 of consensus"
6988. .7036
/note="MADE1 repeat: matches 23. .77 of consensus"
7482. .7754
/note="AluJb repeat: matches 9. .290 of consensus"

repeat_region
7775. .8060
/note="AluJo repeat: matches 1. .295 of consensus"
8414. .8551
/note="L2 repeat: matches 2553. .2706 of consensus"
8914. .9030
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9110. .9280
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9283. .9412
/note="MIR repeat: matches 15. .144 of consensus"
9521. .9679
/note="FAM repeat: matches 3. .161 of consensus"
9820. .10225
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complement(10179. .10678)
/note="match: GSS: Em:B56592"
complement(10204. .10728)
/note="match: GSS: Em:AQ701486"
complement(10249. .10706)
/note="match: GSS: Em:AQ225495"
10312. .10383
/note="MIR repeat: matches 79. .150 of consensus"
10718. .11310
/note="match: GSS: Em:B14024"
10784. .11201
/note="match: GSS: Em:B43656"
11838. .11946
/note="MIR repeat: matches 20. .137 of consensus"
12174. .12445
/note="L2 repeat: matches 1988. .2275 of consensus"
12444. .12642
/note="MIR repeat: matches 63. .241 of consensus"
13017. .13369
/note="match: STS: Em:G49301"
13331. .13397
/note="MIR repeat: matches 174. .244 of consensus"
13398. .13698
/note="AluSp repeat: matches 1. .302 of consensus"
13699. .13810
/note="MIR repeat: matches 76. .174 of consensus"
13806. .13919
/note="MIR repeat: matches 77. .189 of consensus"
13945. .14060
/note="MIR repeat: matches 24. .142 of consensus"
14061. .14367
/note="AluY repeat: matches 1. .301 of consensus"
14368. .14452
/note="MIR repeat: matches 141. .225 of consensus"
14589. .14679
/note="MIR repeat: matches 173. .262 of consensus"
14597. .15201
/note="match: GSS: Em:AQ553482"
14616. .15060
/note="match: GSS: Em:AQ370601"
14868. .15040
/note="MIR repeat: matches 49. .233 of consensus"
15071. .15188
/note="L2 repeat: matches 2112. .2239 of consensus"
15304. .15399
/note="MLT1B repeat: matches 1. .99 of consensus"
15490. .15652
/note="AluSg1 repeat: matches 2. .114 of consensus"
15669. .15727
/note="MLT1B repeat: matches 119. .178 of consensus"
15728. .16027
/note="AluSc repeat: matches 1. .299 of consensus"
16028. .16245
/note="MLT1B repeat: matches 178. .390 of consensus"
16546. .16854
/note="AluY repeat: matches 1. .300 of consensus"
18296. .18323
/note="MSTA repeat: matches 2. .29 of consensus"
18324. .18392

